

10A MICRO-OHMMETER Model 6240



- ▶ Selectable test current and resistance ranges
- ▶ 0.25% accuracy and 1 $\mu\Omega$ resolution
- ▶ Simple one button “press-to-start” operation
- ▶ Software temperature correction for accurate measurements
- ▶ Automatically takes multiple measurements by simply moving the test probes from point to point
- ▶ Front panel buttons for polarity reversal, data storage, data recall and display options
- ▶ Stores up to 99 test results
- ▶ Large easy-to-read backlit electroluminescent display
- ▶ Data storage, analysis and report generation through DataView[®] software included



Model 6240 checks contact resistance on a ground bus.

The 10A Micro-Ohmmeter Model 6240 is a rugged, low resistance tester designed for both plant and field use. It is a cost effective, feature rich instrument designed for measuring contact resistance, bond resistance and other low resistance connections. The Micro-Ohmmeter Model 6240 accurately measures very low resistance with 0.25% accuracy utilizing a four-lead Kelvin method of testing.

An internal NiMH battery pack is rechargeable from 110/230V, 50/60Hz. A fully charged battery can perform up to 850, 10A tests.

Resistance measurements are automatically calculated from $1\mu\Omega$ to 400Ω with resolutions down to $1\mu\Omega$.

The Model 6240 has selectable test currents of 10A, 1A, 100mA and 10mA and includes a polarity reversal function.

The Model 6240 is designed to conduct tests on both resistive and inductive material. Polarity reversal is easily accomplished with a push of a button. The resistance measurements of both positive and negative test results, as well as the average, are displayed.

A large easy-to-read multi-line backlit display indicates all test result information including the resistance measurement, test current and test voltage.

An automatic test mode feature provides for repetitive tests by simply moving the test probes from point to point, displaying the test results and automatically storing the reading in the instrument's internal memory for later recall and report generation.

Up to 99 measurements can be stored and printed directly to a printer or downloaded to a PC for analysis and report generation.

An optically isolated USB port provides quick and easy downloads while protecting the PC from any electrical interference.

The DataView® software included allows you to: download data, temperature compensate the test results, store data and print reports using predefined templates or custom templates you create.

FEATURES

- Reliable low resistance measurements
- Four-terminal Kelvin resistance measurement eliminates test lead resistance
- 10A test current at up to $4000\mu\Omega$
- 0.25% basic accuracy
- $1\mu\Omega$ resolution
- Direct reading, easy to operate
- Six selectable resistance ranges
- Polarity reversal button
- Overload and input fuse protection
- Manufactured to international safety and environmental standards
- Automatic scaling and zeroing
- Large terminals accept banana plugs and spade lugs
- Rechargeable NiMH battery with internal charger (110/230V)
- Rugged, double insulated waterproof case
- Includes DataView® software for instrument configuration, data storage, analysis and report generation

APPLICATIONS

- Aerospace metallic coating resistance measurement
- Bonding verification on earth/ground systems
- Weld joint integrity verification
- Contact resistance measurement of breakers and switchgear
- Aircraft and rail bonding checks
- Wire to terminal connections and resistance checks
- Battery strap resistance checks
- Cable joint and bus bar connection checks
- Mechanical bond tests

 **CALRIGHT
INSTRUMENTS**

The Right Source For Your Test & Measurement Needs

8715 Mesa Point Terrace San Diego, CA 92154
Toll Free: 1.866.363.6634 Tel: 1.619.429.4545 Fax: 1.619.374.7012
Email: sales@calright.com <http://www.calright.com>

SPECIFICATIONS

MODEL	6240					
ELECTRICAL						
Range	4000 $\mu\Omega$	40m Ω	400m Ω	4000m Ω	40 Ω	400 Ω
Accuracy	0.25% \pm 2cts	0.25% \pm 2cts	0.25% \pm 2cts	0.25% \pm 2cts	0.25% \pm 2cts	0.25% \pm 2cts
Resolution	1 $\mu\Omega$	10 $\mu\Omega$	0.1m Ω	1m Ω	10m Ω	100m Ω
Test Current	10A	1A	1A	100mA	10mA	10mA
Measurement Mode	Single test start/stop or auto test and store of multiple measurements					
Power Source	Rechargeable 6V, 8.5 Ah NiMH batteries					
Battery Life	Up to 850, 10A tests					
Battery Charging	Internal 110/230V, 50/60 Hz charger					
Power Management	User selectable power save mode					
Low Battery Indication	 is displayed when battery voltage is low					
Memory	Stores up to 99 test results Data in memory can be reviewed on the instrument display, on a PC or via direct printout					
MECHANICAL						
Dimensions	10.70 x 9.76 x 7.17" (270 x 250 x 180mm)					
Weight	10 lbs. (4.5kg)					
Index of Protection	IP53 (case open) IP54 (case closed)					
DISPLAY						
Display Type	4000-count LCD					
Size	4 x 2.25" (102 x 57mm)					
Backlight	Blue electroluminescent					
Color	Safety yellow case; gray faceplate UL94 V-0					
COMMUNICATION						
Interface Port	Optically isolated USB					
ENVIRONMENTAL						
Operating Temperature	+14° to +131°F (-10° to 55°C); 10 to 85% RH					
Storage Temperature	-40° to +158°F (-40° to +70°C); 10 to 90% RH					
SAFETY						
Safety Rating	EN61010-1 300V Cat. II; 50V Cat. III					
Double Insulation <input type="checkbox"/>	Yes					
CE Mark	Yes					
Catalog No.	2129.80					

ACCESSORIES



Kelvin probes, set of two:
(1A - spring loaded) 10 ft, Cat. #2118.73
(1A - spring loaded) 20 ft, Cat. #2118.52



Kelvin clips, set of two:
(1A - spring loaded) 10 ft
Cat. #1017.83



Kelvin clips, set of two:
(10A - Hippo) 10 ft, Cat. #1017.84
(10A - Hippo) 20 ft, Cat. #2118.70



DataView® is included with the
Model 6240.

ORDERING INFORMATION

CATALOG NO.

10A Micro-Ohmmeter Model 6240	Cat. #2129.80
Includes set of two 10ft Kelvin clips (10A - Hippo), NiMH rechargeable battery pack, optical USB cable, US 115V power cord, one pad of measurement results forms, DataView® software, extra large tool bag, two spare fuses (12.5A), product warranty and registration card and a user manual.	
Accessories (Optional)	
Kelvin Clips (1A), set of two, 10 ft	Cat. #1017.83
Kelvin Clips (10A - Hippo), set of two, 10 ft	Cat. #1017.84
Kelvin Probes (1A - spring loaded), set of two, 20 ft	Cat. #2118.52
Kelvin Clips (10A - Hippo) set of two, 20 ft	Cat. #2118.70
Kelvin Probes (1A - spring loaded), set of two, 10 ft	Cat. #2118.73



The Right Source For Your Test & Measurement Needs

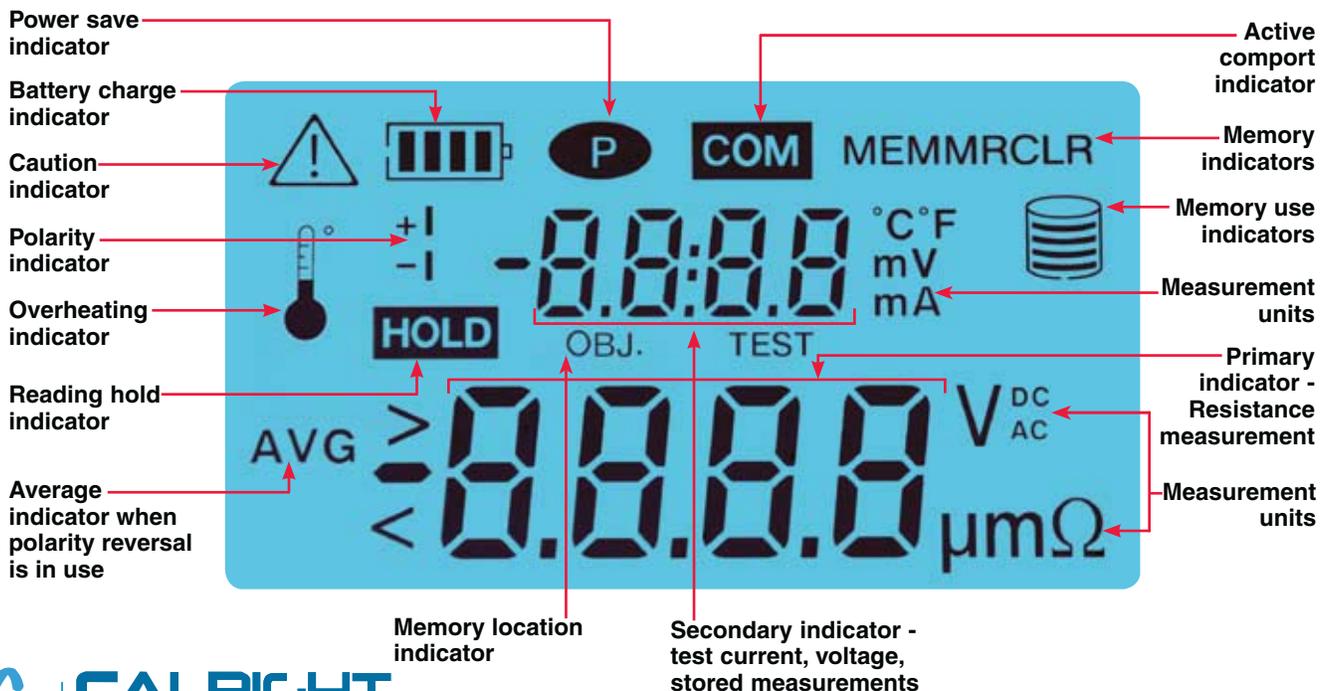
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CONSTRUCTION



* Function buttons allow direct access to data storage and retrieval, polarity reversal, auto/manual measurement and displayed values.

FUNCTIONAL DISPLAY





Data Analysis and Reporting Software

Features

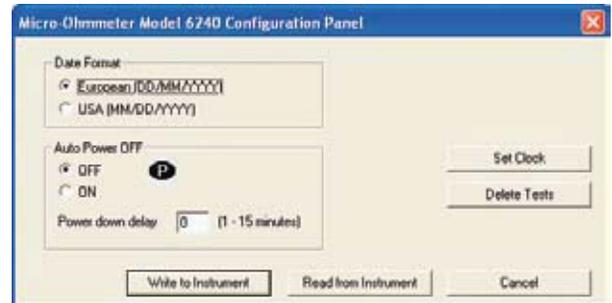
- Configure from your PC
- Customize views, templates and reports to your exact needs
- Create and store a library of configurations that can be used with the Model 6240 as needed
- Display test results
- Print reports using standard included templates or custom templates you design



Index	Name	Value	Units
1	Battery Strap	1.999	m Ohm
2	Test 2	1.999	m Ohm
3	Test 3	2.107	m Ohm

Channel Name: Battery Strap
Measurement Date: 10/5/2007
Measurement Time: 8:57:47.000 AM
Instrument Model: 6240
Test Number: 1
Measurement Type: Resistive
Metal Type: —
Measurement Range: 40 milli-Ohm
Metal Coefficient: 3.93
Volts: 2.02 mV
Current: 1.015 A
Temp: —
Tref: —
Resistance @ (Temp): 1.99 milli-Ohm
Resistance @ (Tref): —

Statistical presentation of measurements.



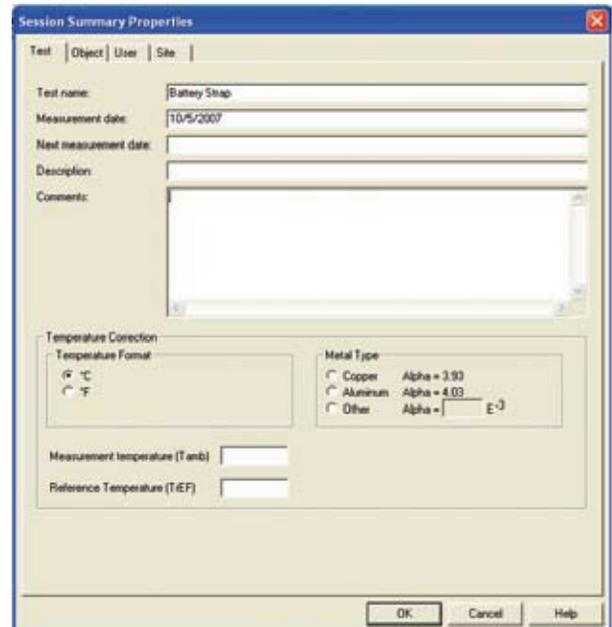
All set up functioning available from one screen.

Object 1: User: Company: AEMC Instruments, Site: ABC Company, Address 1: 200 Folsom Blvd, Address 2: 1218 Any Street, City: Folsom, State: CA, Zip: 95630, Country: USA, Phone: 508-899-2111, Email: email, Operator: Joe

Micro-Ohmmeter Model: 6240
Default: 7
Measurement Date: 10/5/2007
Test Date: —
Channel: 2
Test: Battery Strap

Test Description:
Test Purpose: 40 mOhm
Measurement Type: Resistive
Metal Type: —
Metal Coefficient: —
Measurement Temperature: —
Reference Temperature: —
Measurement Range: 2.03 mV
Measurement Current: 1.015 A
Resistance Value @ (Temp): 1.99 milli-Ohm
Resistance Value @ (Tref): —
Comments: —

Clean, easy-to-read report of test results.



Easily documents statistics about user and test site to be stored with the data.

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